

SECTION - B SHORT QUESTION

- Q-02: Find the value of $x - y$ when $x + y = -9$ and $xy = 20$.
- Q-03: Find the factors of $a^2(b - c) + b^2(c - a) + c^2(a - b)$.
- Q-04: If $A = \{1, 2, 3, 4\}$, find the two sets B and C that are subset of A such that $B \subseteq C$.
- Q-05: Prove that $\cot \theta + \tan \theta = \cot \theta \sec^2 \theta$.
- Q-06: Find the logarithm of 125 to the base $5\sqrt{5}$.
- Q-07: Discuss the advantages of tabulation and classification.
- Q-08: Simplify: $\frac{4}{x^2 - 4x - 5} + \frac{8}{x^2 - 1}$
- Q-09: If $x + 7 : 2(x + 14)$ is the duplicate ratio of $5 : 8$, find the value of x .
- Q-10: Find the solution set of $[5y - 3] - 6 = 3$.
- Q-11: Prove that the sum of measures of the angles of a triangle is 180° .
- Q-12: Eliminate 'y' from the equation $y + \frac{1}{y} = b$ and $y^3 + \frac{1}{y^3} = a^3$
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- Q-13: If $y = \sqrt{5} - 2$, find the value of $y^2 - \frac{1}{y^2}$
- Q-14: Find the inverse of $\begin{bmatrix} 1 & 2 \\ 0 & 1 \end{bmatrix}$
- Q-15: Define anyone of the following terms and illustrate by drawing figure.
(i) Adjacent angles (ii) Vertically opposite angles